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    151 TTTGGCAAGG TGTGCATTGT GCAGAAGCGG GACACGGAGA AGATGTACGC
    201 CATGAAGTAC ATGAACAAGC AGCAGTGCAT CGAGCGCGAC GAGGTCCGCA
    251 ACGTCTTCCG GGAGCTGGAG ATCCTGCAGG AGATCGAGCA CGTCTTCCTG
    301 GTGAACCTCT GGTACTCCTT CCAGGACGAG GAGGACATGT TCATGGTCGT
351 GGACCTGCTA CTGGGCGGGG ACCTGCGCTA CCACCTGCAG CAGAACGTGC
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451 CTGGACTACC TGCGCGGCCA GCACATCATC CACAGAGATG TCAAGCCTGA
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551 TTGCCACCAT CATCAAGGAC GGGGAGCGGG CGACGGCATT AGCAGGCACC
   601 AAGCCGTACA TGGCTCCGGA GATCTTCCAC TCTTTTGTCA ACGCCGGGAC 651 CGGCTACTCC TTCGAGGTGG ACTGGTGGTC GGTGGGGGTG ATGGCCTATG
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    751 GAGTCCCTGG TGCAGCTGTT CAGCACCGTG AGCGTCCAGT ATGTCCCCAC
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FEATURES:
 5'UTR:
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Start Codon: 193
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 Stop Codon:
Homologous proteins:
Top 10 BLAST Hits:
Sequences producing significant alignments:

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                                                                                                                 Score
                                                                                                                 (bits)
760
                                                                                                                              Value
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                                                                                                                    733 0.0
                                                                                                                            e-157
                                                                                                                    556
                                                                                                                    554
423
                                                                                                                            e-156
                                                                                                                    335
217
                                                                                                                            1e-90
                                                                                                                            4e-55
                                                                                                                    203
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## EST: Sequences producing significant alignments: (bits) Value gi|13032240 /dataset=dbest /taxon=960... 1348 0.0 gi|6588496 /dataset=dbest /taxon=9606 ... 1021 0.0 gi|883123 /dataset=dbest /taxon=9606 /... 702 0.0 gi|946492 /dataset=dbest /taxon=9606 /... 236 le-59 EXPRESSION INFORMATION FOR MODULATORY USE: gi|13032240 prostate gi|6588496 /lung gi|883123 /whole brain gi|946492 / Adult brain Tissue Expression whole brain

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    301 ENDYLODCLD AIQQDFVIFN REKLKRSQDL PREPLPAPES RDAAEPVEDE
    351 AERSALPMCG PICPSAGSG
        (SEQ ID NO: 2)
Functional domains and key regions:
[1]_PDOC00001 PS00001 ASN_GLYCOSYLATION
N-glycosylation site
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[2] PDOC00005 PS00005 PKC_PHOSPHO_SITE Protein kinase C phosphorylation site
Number of matches: 2
1 75-77 TVR
2 245-247 SEK
[3] PDOC00006 PS00006 CK2_PHOSPHO_SITE Casein kinase II phosphorylation site
Number of matches: 4

1 42-45 SFQD

2 226-229 SLQD

3 298-301 SQSE

208-202 SQSE
                     300-303 SEND
            4
[4] PDOC00008 PS00008 MYRISTYL
N-myristoylation site
                     152-157 GTGYSF
[5] PDOC00100 PS00108 PROTEIN_KINASE_ST
Serine/Threonine protein kinases active-site signature
                        95-107 IIHRDVKPDNILL
Membrane spanning structure and domains:
Helix Begin End Score Certainity
1 185 205 0.727 Putative
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BLAST Alignment to Top Hit:
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              /length=488
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 Score = 760 bits (1942), Expect = 0.0 Identities = 371/399 (92%), Positives = 381/399 (94%), Gaps = 1/399 (0%)
 Frame = +1
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Query: 283
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Sbjct: 209
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Sbict: 269
Query: 823
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Sbjct: 329
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Sbict: 389
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Query: 1183 PREPLPAPESRDAAEPVED-EAERSALPMCGPICPSAGS 1296
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Sbjct: 449 MSEPPPGPETSDMTDSTADSEAEPTALPMCGSICPSSGS 487 (SEQ ID NO: 4)
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Query: 193
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Query: 553
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Sbjct: 181
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Query: 913
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Sbjct: 241
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CE00359 E00359 bone\_morphogenetic\_protein\_receptor
CE00022 CE00022 MAGUK\_subfamily\_d
CE00031 CE00031 VEGFR
CE00292 CE00292 PTK\_membrane\_span
CE00291 CE00291 PTK\_fgf\_receptor
CE00287 CE00287 PTK\_Eph\_orphan\_receptor
CE00286 PTK FGF\_receptor 197.7 1.8e-55 1 9.8 9.2 0.044 1 ī 0.013 1.6 1 -92.7 0.0016 1 -116.1 0.041 2.8 -125.0 -131.8 1 E00286 PTK\_EGF\_receptor CE00290 PTK\_Trk\_family 0.0056 CE00286 CE00290 1 -206.7 0.58 1 0.0061 CE00016 CE00016 GSK\_glycogen\_synthase\_kinase -248.2Parsed for domains: Domain seq-f seq-t hmm-f hmm-t score E-value Model 107 .. 9.2 0.013 CE00022 1/1 86 133 154 1/1 1/1 1/1 1/1 1/1 95 9.8 CE00359 144 .. 272 326 .. 0.044 171 ... 212 ... 212 ... CE00031 79 1051 1141 1141 ... 263 [] 260 [] 282 [] 271 ... 288 [] 285 [] 1.6 1:3 0.0056 3 -131.8 CE00286 CE00287 1 -125.0 2.8 215 ... 228 ... 233 ... 233 [... 303 [... 0.58 CE00290 1/1 4 -206.7 1/1 1/1 197.7 26 PF00069 2 5 1 1.8e-55 -92.7 CE00292 0.0016 CE00291 -116.1 0.041 CE00016 -248.2 0.0061

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501 ATTTTCCACC ATATTTGTCT CACAGCCTGT CTGGTCCCAG CCCCAGGGCA
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	GTGCCTCAGC				
	TCCTGGGCAG				
	CAGGGGTGGG				
	CCCCAGTGGG				
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	CCAGGTGGCC				
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	TTCCCTACCA				
	CCCAGGATGA				
	CAGAGCCCAG				
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11751	GGTTGTGTGG	AGATGTTTTG	GCTTGAGGGT	AGGAGGTGTT	CTGAAAGGAA
	AGCATCACTC				
	GTTTTTGGAA				
	CAGTGCATCC				
11321	GGGCTGTGCA	TICICCACCA	CAATCIGATI	TTAGAACCTT	TTCATGTAAT
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	CCTGTCAGTG				
	ATCACCTTTC				
	CTTGTTAACA				
12351	TACAAGTCTT	TGTGTGGATA	TGTACTTTTA	TTTTTGGGGG	GCACATACCT
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	GTCTGGTTTA				
	TGTGGTTATG				
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	GGGCTCAAGT				
	GGTGTGCACC				
	CAGGGTCTCA				
	CACCTCAGCC				
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13101	CTGAGGCAAG	AGGACTGCTT	GAGTCCAGGA	GTTTGAGACC	AGCCTGGGCA
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	CATACCTGAG				
			GCCTCACAGI		
					AAGGAGGAGA
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13351 13401 13451 13551 13551 13601 13651 13701 13751 13801 13851 13901 13951 14001 14051	AAGTCACATC GAAACTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTG ACATCTTGA GGTTCCCATG CCTTCCTCCC CCAGGTGCAT GGATGGTGGC	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAACATG GGGGACAGAG TGTCCTCACA CTTATTTTGG CAAGGTAAAGT TTCCTAGATA ATGGGAGAAA AAATCCAGCA CTCTATCTCT GTCTTAGGCA GGCTGCTTTCT GGCTGCTACCC CCTCTTCCA	GGCGGCAGGC CATCGGATCT ACCCGCCCC TGGGAATGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGGT TTGGCCAAAA GGCCTGTCAA CACATCCAGG GCTCTGCCCT GTGGGCTGGC GTTGGGTGGAT GAGCTCCACT	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG ACAGGCATTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTCTC ATTGAGTCTC ATACCATTCT AGGCAGTGCC	CTTGTTCAGG ATTCACTATC CACCTCCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA GGTAAATTCA ACAGGCCCCA TTCAAAATGA GCAAGAGTTG CAGAGTACAG TGGGCTTTT GGGGTGTAGA CCAGTGGGA
13351 13401 13451 13501 13551 13601 13651 13701 13851 13801 13851 13901 14051 14051	AAGTCACATC GAAACTTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTGA ACATCTTGA GGTTCCCATG CCTTCCTCCC CCAGGTGCAT GGATGGTGCC CTTTGTATAG	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CAAGGTAAGT TTCCTAGATA ATGGGAGAAA AAATCCAGCA CTCTATCTCT GTCTTAGCCA GGCTGCTTTC GGTGCAAGCT CCTCTTCTCA GGGCACCAAC	GGCGGCAGGC CATCGGATCT ACCCGCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGGT TTGGCCAAAA GGCCTGTCAA CACATCCAGG GCTCTGCCCT GTGGGCTGGC GTTGGTGGAT GAGCTCCACT CCCACATTTC	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG ACAGGCATTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTGTC ATTACATTCT AGGCAGTGCC CCTTCTGCAT	CTTGTTCAGG ATTCACTATC CACCTCCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA ACAGGCCCCA TTCAAAATCA ACAGGCCCCA TTCAAAATGA GCAAGAGTTG CAGAGTACAG TGTGGCTTTT GGGGTGTAGA CCAGTGGGGA TGCCCTAGCA
13351 13401 13451 13501 13551 13601 13651 13701 13851 13801 13851 13901 14051 14051	AAGTCACATC GAAACTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTG ACATCTTGA GGTTCCCATG CCTTCCTCCC CCAGGTGCAT GGATGGTGGC	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CAAGGTAAGT TTCCTAGATA ATGGGAGAAA AAATCCAGCA CTCTATCTCT GTCTTAGCCA GGCTGCTTTC GGTGCAAGCT CCTCTTCTCA GGGCACCAAC	GGCGGCAGGC CATCGGATCT ACCCGCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGGT TTGGCCAAAA GGCCTGTCAA CACATCCAGG GCTCTGCCCT GTGGGCTGGC GTTGGTGGAT GAGCTCCACT CCCACATTTC	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG ACAGGCATTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTGTC ATTACATTCT AGGCAGTGCC CCTTCTGCAT	CTTGTTCAGG ATTCACTATC CACCTCCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA ACAGGCCCCA TTCAAAATTCA ACAGGCCCCA TTCAAAATGA GCAAGAGTTG CAGAGTACAG TGTGGCTTTT GGGGTGTAGA CCAGTGGGGA TGCCCTAGCA
13351 13401 13451 13501 13551 13601 13651 13751 13751 13801 13851 13901 13951 14001 14051 14101	AAGTCACATC GAAACTTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTG ACATCTTTGA GGTTCCCATG CCTTCCTCCC CCAGGTGCAT GGATGGTGCAT GGATGGTGCAT GGATGGTGCAT GGATGGTGCAT GGATGGTTCCCC CCAGGTTCCTCCC CCAGGTTCCTCCC CCAGGTTCCTCCC CCAGGTTCCTCCC CCAGGTTCCTCCC CCAGGTTCCTCCC CCAGGTTCCTCCC CCAGGTTCCTCCC CCAGGTTCCTCCC	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CAGAGTAAGT TTCCTAGATA ATGGGAGAAA AAATCCAGCA CTCTATCTCT GTCTTAGGCA GGCTGCTTTC GGTGCAAGCT CCTCTTCTCA GGGGCACCAAC ATGAGGGCCC	GGCGGCAGGC CATCGGATCT ACCCGCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGGT TTGGCCAAAA GGCCTGTCAA CACATCCAGG GCTCTGCCCT GTGGGCTGGC GTTGGTGGAT GAGCTCCACT CCCACATTTC CACCCCTGCA	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG ACAGGCATTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATGCAGTGCC CCTTCTGCAT ACAAACTTCT	CTTGTTCAGG ATTCACTATC CACCTCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA ACAGGCCCCA TTCAAAATGA GCAAGAGTTG CAGAGGTTT CAGAGTACAG TGTGGCTTTT GGGGTGTAGA CCAGTGGGGA TGCCCTAGCA GCCCTAGCA GCCTGGACAT
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13351 13401 13451 13501 13551 13601 13751 13751 13801 13851 13901 14051 14001 14051 14101 14251 14301 14351 14401 14451 14451	AAGTCACATC GAAACTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTG ACATCTTTGA GGTTCCCATG CCTTCCTCC CCAGGTGCAT GGATGGTGC CTTTGTATAG GAGGTTCTC CCAGGTGTTT CAATTCTTGA CACAGCTTGG GCCCCTTTCA TAGACTGCAC TTCCTCCTAG	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CAAGGTAAGT TTCCTAGATA ATGGGAGAAA AAATCCAGCA CTCTATCTCT GGTGCAAGCT CCTCTTCTCA GGGCACCAAC ATGAGGGCCC CCATACATCC CTTCTGTGCA GGCTTGTACC GTCATGGCTG ACAGCAGAGG GCCTCTGAGT CTGGAGACAT CTGGAGACAT CTGGAGACAT CTGGAGACAT	GGCGGCAGGC CATCGGATCT ACCCGCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGGT TTGGCCAAAA GGCCTGTCAA CACATCCAGG GTTCGGCTGGAT GAGCTCACT CCCACATTTC CACCCCTGCA TCTGAAATGC CCTGCAGGCT CTCTGCAGC CCTGCAGGCT CTCTGCAATGC CCTGCAGCT CTCTGCAATGC CCTGCAGCT CTCTGAAATGC CCTGCAGCT CTCTGAAGCC GACCCTTGA CCTGTGAATGC CTGTGAATGC CTGTGAATGCT CTCTGAATGCT CTCTGAATGCT CTCTGAATGCT CTCTGAATGCT CTCTGAATGCT CTCTGAATGCT CTCTGAATGCT CTCTGAATGCT TTTCCCCATT	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTGTC ATACCATTCT AGGCAGTGCC CCTTCTGCAT ACAACTTCT AGGCAGAGGC CAACACCACA ACAGCCTGAG GATGCAGTGC CTCGCCCATG AGGGGCTGCC GTCTTGGTGA	CTTGTTCAGG ATTCACTATC CACCTCCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA GGTAAATTCA ACAGGCCCCA TTCAAAATGA GCAAGAGTTTG CAGAGTACAG TGTGGCTTTT GGGGTGTAGA CCAGTGGGGA TGCCCTAGCA TCCCAAACCT TGGAAGCTGC CTGTACCTTG AGCAAGGTCC AAACCATTTT GCAAAGGTCT TTAATATTCA
13351 13401 13451 13501 13551 13601 13751 13701 13751 13801 13851 14901 14051 14101 14251 14201 14251 14301 14451 14451 14451 14551	AAGTCACATC GAAACTTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTTGCA GGTTCCCATG CCTTCCTCCC CCAGGTGCAT GGATGGTGCC CTTGTATAG GAGGTTCTCC CCAGGTGTTT CAATTCTTGA CACAGCTTGG GCCCCTTTCA TAGACTGCAC TTCCTCCTCC CTTCCTCCC CCAGGTGTTT CAATTCTTGA CACAGCTTGG GCCCCTTTCA TAGACTGCAC TTCCTCTAG GTGGCATGCC GTTCCTTGTT	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAGCAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CAGGAGAAA ATGGGAGAAA ATGGGAGAAA AAATCCAGCA CTCTATCTC GTCTTAGCA GGCTGCTTTC GGTGCAAGCT CCTCTTCTCA ATGAGGGCCC CCATACATCC CTCTTCTGCA GGCTTGTACC GTCATGGCT ACAGCAGAGG GCCTCTTGAGT ACAGCAGAGG GCCTCTTAGCAA TGCTAGGCAAACAT CTCAGGCACAT ACAGCAGAGG GCCTCTGAGT CTGGAGACAT GCTTATGCAA	GGCGGCAGGC CATCGGATCT ACCCGCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGT TTGGCCAAAA GGCTGTCAA CACATCCAGG GCTCTGCCCT GTGGGCTGGC GTTGGTGGAT CACCCCTGCA TCTGAAATGC CCTGCAGCT CTCGCAGCT CTCGCAGCT CTCTGCAGCT CTCTGGAGCT CTCTGGAGCT CTCTGGAGCT CTCTGGAGCT CTCTGGAGCT CTCTGGAGCT CTCTGGAGCT CTCTGGAGCT CTCTGGAGCT CTCTGCAGT ATTTCCCCATT	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG ACAGGCATTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATTGAGTGTC ATACCATTCT AGGCAGTGCC CCTTCTGCAT ACAAACTTCT AGGCAGAGGC CAACACCACA ACAGCCTGAG GATGCACTGCC CTCGCCCATG AGGGGCTGCC GTCTTGGTGA AGAAAATGGG	CTTGTTCAGG ATTCACTATC CACCTCCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA GGTAAATTCA ACAGGCCCCA TTCAAAATGA CCAGGGTACAG TGTGGCTTTT GGGGTGTAGA CCAGTGGGGA TGCCCTAGCA GCCTGGACAT TCCCAAACCT TGGAAGCTGC CTGTACCTTG AGCAAGGTCC AAACCATTTT GCAAGGTCT TGCAAGCTCC AAACCATTTT GCAAGGTCT TGCAAGCTCT AGCAAGGTCT TGCAAGCTCT TGAAGCTCT AGCAAGGTCT TTAATATTCA GTTTTCTTTT
13351 13401 13451 13551 13551 13651 13751 13751 13751 13801 13951 13951 14001 14151 14101 14151 14201 14251 14301 14451 14501 1451 14501 14501 14501	AAGTCACATC GAAACTTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTG ACATCTTGA GATGCCATG CCTTCCTCCC CCAGGTGCAT GGATGGTGCAT GAATCTTGA GAGGTTCTCC CCAGGTGTTT CAATTCTTGA CACAGCTTTCA TAGACTGCAC TTCCTCCTCC CTTGGTGCC TTCCTCCTGG GCCCCTTTGA TAGACTGCAC TTCCTCCTAG GTGCCATGCC TTTCTTCTTTTTTTTTT	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAGCAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CACAGGAAAA ATCCAGCA CTCTATCTT GTCTTAGGCA GCTGCTTTC GGTGCAAGCT CCTCTTCTCA ATGAGGACCC CCATACATCC CTTCTGTGCA GGCTCTACC GTCATGCAC ATGAGGGCCC CCATACATCC CTTCTGTGCA GCCTGTACC GTCATGCAGCT ACAGCAGAGG GCCTCTGAGT CTGAGAGACAT CTGAGAGACAT CTTATGCAA TTTTTTTTTT	GGCGGCAGGC CATCGGATCT ACCCGCCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGT TTGGCCAAAA GGCCTGTCAA CACATCAGG GCTCTGCCCT GTGGGCTGGC GTTGGTGGAT GAGCTCCACT CCCCACATTTC CACCCTGCA TCTGAAATGC CCTGCAGGCT CTCGCAGCT CTCGCAGCT CTCGCAGCT CTCGCAGCT CTCGCAGCT CTCGCAGCT CTCGCAGCT CTCTGAATGC CTGTGATGGT TTTCCCCATT ATTTCCCCCT TTTTTGAGAC	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG ACAGGCATTG CAAAGGGGCT ATCTTAAAGC TCATGCTCAT TGTGGCTCTG ATTGAGTGTC ATACCATTCT AGGCAGTGCC CCTTCTGCAT ACAAACTTCT AGGCAGAGGC CAACACCACA ACAGCCTGAG GATGCAGTGC CTCGCCCATG AGGGGCTGCC GTCTTGGTT AGGAAAATGGG AGAAAATGGG AGAAAATGGG AGACACTGCC GTCTTGGTT AGGAAAATGGG AGAAAATGGG AGAAAATGGG	CTTGTTCAGG ATTCACTATC CACCTCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA GGTAAATTCA ACAGGCCCCA TTCAAAATGA GCAAGAGTTG CAGAGGTTTT GGGGTGTAGA CCAGTGGGGA TGCCCTAGCA GCCTGGACAT TCCCAAACCT TGGAAGCTGC CTGTACCTTG AGCAAGTCCC AAACCATTTT GCAAAGGTCT TTAATATTCA GTTTTCTTTT TGTCACCCAG
13351 13401 13451 13551 13551 13601 13751 13701 13751 13801 13951 14001 14051 14101 14251 14301 14451 14451 14451 14451 14451 14501 14651	AAGTCACATC GAAACTTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTG ACATCTTGA GCATCCCC CCAGGTGCAT GGATGGTGGC CTTCCTCCC CCAGGTGTTT CAATTCTTGA CACAGCTTTGA CACAGCTTTGA CACAGCTTTGA TAGAACTGCAC TTCCTCCTCC CTTCCTCCTCC CCAGGTGTTT CAATTCTTGA CACAGCTTTCA TAGAACTGCAC TTCCTTCATTTTTTTTTT	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAGCAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CAAGGTAAGT TTCCTAGATA ATGGGAGAAA AAATCCAGCA CTCTATCTT GTCTTAGGCA GGCTGCTTTC GGTGCAAGCT CCTCTTCTCA GGGCACCAAC ATGAGGGCC CCATACATCC CTTCTGTGCA GGCTTGTACC GTCATGCTG ACAGCAGAGG GCCTCTGAGT CTGGAGACAT GCTTATGCAA TTTTTTTTT AGTGGTGCAA	GGCGGCAGGC CATCGGATCT ACCCGCCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGGT TTGGCCAAAA GGCCTGTCAA CACATCCAGG GCTCTGCCCT GTGGGCTGGC GTTGGTGGAT GAGCTCCACT CCACCTTCC CACCCTGCA TCTGAAATGC CCTGCGGGCT CTCTGAAGCG GACCACTTC CACCCTTGCA TCTGAAGTGC CTGTGAGGCT CTTGAAGTGC TCTGAAGTGC TCTGAAGTC TCTGAAGT TCTGA	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG ACAGGCATTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTTCT ATGCAGTTCT AGGCAGTGCC CCTTCTGCAT ACAAACTTCT AGGCAGAGGC CAACACCACA ACAGCCTGAG GATGCAGTGC CTCGCCCATG AGGAGATGC GTCTTGGTGA AGAAAATTCT AGGCAGTGC CTCGCCCATG AGGAGCTGCC GTCTTGGTGA AGAAAATTCT TGCCACTGC TTGCCACTGC	CTTGTTCAGG ATTCACTATC CACCTCCCAC ATTCAAGCTG CCAGCCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA GGTAAATTCA ACAGGCCCCA TTCAAAATTGA GCAAGAGTTG CAGAGTACAG TGTGGCTTTT GGGGTGTAGA CCAGTGGGGA TGCCCTAGCA TCCCAAACCT TGGAAGCTCC TGGAAGCTCC AGCAGAGTCC AGCAGTCCC TGGAAGCTC TGGAAGCTC TTGAACTTT GCAAAGGTCT TTAATATTCA GTTTTCTTTT TGTCACCCAG AACCTCCGCT
13351 13401 13451 13551 13501 13551 13601 13751 13801 13751 13801 13951 14001 14051 14101 14251 14301 14451 14401 14451 14451 14451 14451 14451 14451 14451 14451 14451 14451	AAGTCACATC GAAACTTTTG ATGACAACAG CAGGTTCCTC AGATTGGGAT CAAAATCTCA CCCCCATAGT TCATCTGAGA AGCAAGTGAC GCCATTCCAA TGCAAGTCTG ACATCTTGA GATGCCATG CCTTCCTCCC CCAGGTGCAT GGATGGTGCAT GAATCTTGA GAGGTTCTCC CCAGGTGTTT CAATTCTTGA CACAGCTTTCA TAGACTGCAC TTCCTCCTCC CTTGGTGCC TTCCTCCTGG GCCCCTTTGA TAGACTGCAC TTCCTCCTAG GTGCCATGCC TTTCTTCTTTTTTTTTT	TTACATGGAT TTTTTAAAAC CACAGGAAAG CCACAGCAACATG GGGGACAGAG TGTCCTCACA CTTATTTTG CAAGGTAAGT TTCCTAGATA ATGGGAGAAA AAATCCAGCA CTCTATCTCT GCTCTTAGGCA GGCTGCTTTC GGTGCAAGCT CCTCTTCTCA GGGCACCAAC ATGAGGGCC CCATACATCC CTTCTGTGCA GGCTTGTACC GTCATGGCTG ACAGCAGAGG GCCTCTGAGT CTGGAGACAT GCTTATGCAA TTTTTTTTT AGTGGTGCAA AAGTGATTCT	GGCGGCAGGC CATCGGATCT ACCCGCCCCC TGGGAATTGT CCAAACCATA TTTCAGAACC CATTAACTCA CCCTTCTGCC CAATAGGGGT TTGGCCAAAA GGCCTGTCAA CACATCCAGG GCTCTGCCCT GTGGGCTGGC GTTGGTGGAT GAGCTCCACT CCACACTTC CCACATTTC CCACCCTGCA TCTGAAATGC CTGCGGGCT CTCTGAAGCC GAGCAGCTGGAC CTGTGATGGT TTTCCCCATT ATTTCTCCT TTTTTTGACAC TGGCGGCTCA CCGCGGCTCA CCTGTCTCAG CCTGTCTCAG CCTGTCTCAG	AAAGAGAGAG CATGAGACTC ATAATTCAAT GGGAGTCACA TCATTCTGCC AATCATGCCT AAAGTCCACA TATGAGTCTG CAAAGGGGCT ATCTTAAAGC TCATGCTGAT TGTGGCTCTG ATTGAGTGTC ATACCATTCT AGGCAGTGCC CCTTCTCAT ACAAACTTCT AGGCAGAGGC CAACACCACA ACAGCCTGAG GATGCACTGAG GATGCACTGCC CTCGCCCATG AGGGGCTGCC GTCTTGGTGA AGAAAATGGG AGTCTTGCTC TTGCCCATG AGGAGAAATGGC CTCCCCATG AGGAGAAATGGC CTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCCCCATG	CTTGTTCAGG ATTCACTATC CACCTCCCAC ATTCAAGCTG CCAGCCCTC TCCCAACAGT GTCCAATGTC TAAAATCAAA ACAGGCCCCA TTCAAAATGA GCAAGAGTTG CAGAGTACAG GCAGGGGGA TGCCCTAGCA TCCCAAACCT TGGAAGCTCC TGGAAGCTCC TGGAAGCTCT TGGAAGCTCC TGGAAGCTCT TGCAAACCT TGCAAACCT TGCAAACCT TGCAAACCT TGCAAGCTCC AGCAGTCCCAAACCT TTAATATTCA GTTTTCTTTT TGTCACCCAG AACCTCCCGCT AGCTGGGATT

14801	GGGTTTCACC	ATGTTGGCCA	GGCTGGTCTT	GAACTCCTGA	CCTCAGGTGA
14051	TOTAL	ATT TOUCK	doctodicii	CARCICCIOA	CCTCAGGTGA
14821	ICIGCCIGCC	TTAACCTCCC	AAAGTGCTAG	GATTACAGGC	GIGAGCCACC
14901	GTGCCCAGCC	AGGAGTTTCT	TTTCTATTGC	ATTGTCAGGT	TGCAAATTTT
			CTTTTTAAAA		
15001	CCAAGTCACC	TCTTGAATGC	TTTGCTGCTT	AGAAATTTCT	TCTGCCACAT
			TTCAGAGTTC		
TOTOT	GCAAAATGCT	GCCAGTCTCT	TTGCTTAAAG	CATAACAAGA	GCCACCTTTG
15151	CTGTAGTTCC	CAACAAGTTC	CTCATCTCCA	TCTGAGACCA	ACTCAGCCTG
TOSOT	GACTICATIG	TCCATATCAT	TATCAGCATT	TTGGTCAAAG	CCATTCAACA
15251	AGTCTCTAGG	AAGTTCCAAA	CTTTCCCACA	TTTTCCTGTC	TTCTTCTGAG
TOOUT	CCCTCCAGAT	GGTTCCAGCC	TCTGCCTATT	ACCCAGITCT	AAAAAGTIGC
15351	TTCCACATTT	TCAGGTATCA	TTTCAGCAGC	GCCCTACTTT	ACTGGTACCA
		TTAGTCTGTT		TAATAAAGAC	
		TATACAGGAA		TGGACTTACA	GTTCCACATG
15501	GCTGGGGAGG	CCTCACAATC	ATGGCGGAAG	GCAAGGAGGA	GCAAGTCACA
			GAGCTTGTGC		
15601	AACCATCAGA	TCTCATGAGA	CTCATTCACT	ATCATGACAA	CAGCACAGGA
		CCCATAATTC		CACTGGGTTC	CTCCCATGAC
			ACAATTCAAG	CTGAGATTGG	GGTGGGGAGA
15751	CAGCCAAACC	TTATCACCAG	CTCTATAAAA	GACAAAAAA	TTAGGCAGGC
		ATGCCTGTAG		GTGAGAGGAT	
15851	CAGGAGTTTG	AGACCAGGCT	GGGCAACATG	GCGAGACCCT	GTCTCTACAA
			GTGGGATACA	CCTGTGATAC	CAGCTACGCA
		GCAGTAGGAT		CAGGAGTTCA	AGGC FGCAGT
16001	AAGCTATGAT	CATGCCCCTG	CACTCCAGTC	TGGGTAACAG	AGAGACACGC
			GGTCATTTAT		
16101	CCTTATTTGT	AACTGTAGTC	TATTTATTGG	TCTTCCTTTT	TCCCTATTTT
		CTGGTTTTAA		TATATTATTC	
TPSOT	CCTCTCCTGG	CCTGTTAATT	ATACTTCTTT	TTGAAATATT	TITAGTGGTT
16251	GGCCTGGACA	TTGCAGTATA	CCTTTACCAT	ACAGTCTACC	TTCACCTGAC
		CTCATGTGCA		TTGTGACGGC	
16351	CAATCCTCCT	GTTCCTGATG	ACATTGCTGT	CATTCATTTC	ATTTATCTGT
			ATTGTTACTA		
16451	CTTTTGGATC	AATTAAGAAA	AATTAAAAAT	TTCATTTTAC	CTCTATTCAT
16501	TCCTCCTCTA	AAGTGCTTCC	TTTCTTTATG	CAGACCCAAG	TTGCTGACCT
		CCTTTCCCCT	GAGGAACTIC	GTTTAACATG	ICTIATAGGA
16601	CAGGTCCAAC	AGAGATGAAT	TCCTTCCCTT	TTTGTTTGTC	CAAAAAAGTC
		CCTTTAAAGA		TGGATATAGA	
TO\OT	GGTAGGTTTT	TTACTTTCAA	CACTITAAAT	ATTTCACTCC	GCTCTCTTCT
16751	TGCTTATGTG	ATTTCTAACA	GGCAGTCTGC	TCTAATTCTT	TTTCTGTAAG
		CGCCACCCC		TCATTTCAAG	AITHCICIG
16851	TCTTTGGTTT	TCTGCAATTT	GAATAATGAT	ATGCCTAGGT	ACAGATTTTT
			<b>GGTGTTCTCT</b>		
TPAPT	TTGGTGTCTG	TCATTAATTT	CAGAAAATTC	CCAGTCATTA	TTATTTCAAA
17001	TATTCTGTTC	TCTTTCTCTT	CTCCTGCTGG	AAATCCAATT	ATGTGTGTGT
			CACAGCTCTT	GGATATICIG	HCAITIII
17101	TCACTCTTTT	TTTTTTCTCT	TTGCATTTCA	GTTCGAGAAG	TTTCTGTTGA
			TCCTTCCTCA		
1/201	GAACCATCAA	AGGCATCCTC	ATTTCTGTTA	CAGIGITIC	TACTICCAGC
17251	ATTTCCTTTT	GATCCCTCCT	TGGAGTTTCC	ATCTCTCTAC	TTACATTGCC
	CTTCTGTTCC			TTCCCCTGGA	
T/32T	TATTAATCAC	AGTTATTTCA	AATTTCCTGT	ΤΤΓΙΔΤΔΑΤΤΟ	CAACATGGGT
17401				I I OMI MI I C	CACA 1 000 1
17/F1	GCCATATCTG	GATCIGITOT	<b>AATGTGTGC</b>	TIGICICITIC	ACACTCTATT
	TTTTTCCTTA	AGACCTTGTA	AATGTGTGCA	TTGTCTCTTC	ACACTCTATT
	TTTTTCCTTA	AGACCTTGTA	GTCTGCCTTG	TTGTCTCTTC TAATGTTTGT	ACACTCTATT TGAAAGCTGG
17501	TTTTTCCTTA ACGTGATGTA	AGACCTTGTA TCTGGTAATA	GTCTGCCTTG AGAGCTGAAG	TTGTCTCTTC TAATGTTTGT TAGATGGGCC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA
17501	TTTTTCCTTA ACGTGATGTA	AGACCTTGTA TCTGGTAATA	GTCTGCCTTG AGAGCTGAAG	TTGTCTCTTC TAATGTTTGT TAGATGGGCC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA
17501 17551	TTTTTCCTTA ACGTGATGTA GGTTTATGTA	AGACCTTGTA TCTGGTAATA ATCTGGCCAG	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA	TTGTCTCTTC TAATGTTTGT TAGATGGGCC GGGTTTAAAG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG
17501 17551 17601	ACGTGATGTA GGTTTATGTA CTGTGGGTAC	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT	TTGTCTCTTC TAATGTTTGT TAGATGGGCC GGGTTTAAAG TCATTTCCCG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT
17501 17551 17601	ACGTGATGTA GGTTTATGTA CTGTGGGTAC	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT	TTGTCTCTTC TAATGTTTGT TAGATGGGCC GGGTTTAAAG TCATTTCCCG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT
17501 17551 17601 17651	ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG	TTGTCTCTTC TAATGTTTGT TAGATGGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT
17501 17551 17601 17651 17701	ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG	TTGTCTCTTC TAATGTTTGT TAGATGGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA
17501 17551 17601 17651 17701 17751	ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCAGTCTT
17501 17551 17601 17651 17701 17751	ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCAGTCTT
17501 17551 17601 17651 17701 17751 17801	ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGCCTGT	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCAGTCTT CCTCCCCTTA
17501 17551 17601 17651 17701 17751 17801 17851	ACGTGATGTA ACGTGATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTGT GGTGAGACAG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGACTG GCCCCTTCAC GCTAAAGCGG	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCAGTCTT CCTCCCCTAA CCTCCCCCAA
17501 17551 17601 17651 17701 17751 17801 17851	ACGTGATGA ACGTGATGA GGTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGG GGGGGCCTGT GGTGAGACAG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCAGTCTT CCTCCCCTAA CCTCCCCCAA
17501 17551 17601 17651 17701 17751 17801 17851 17901	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTTGT GGTGAGACAG GTGAGACAG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCACGTCTT CCTCCCCTTA CCTCCCCCAA TGTGGAGAAT
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951	ACGTGATGTA GGTTTATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGCCTGT GGTGAGACAG GTGAGACAG GCTCTGGTG GCTCTGGTG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTT TATTTCACAG	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCAGTCTT CCTCCCCTTA CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGGGGT	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTTGC CCCCATCCCA CCTGGCAGGG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTTGTGCCCT TGTTTTGGA TCTCAGTCTT CCTCCCCTA CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGGC TTCCTGGAGGC
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGGGGT	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTTGC CCCCATCCCA CCTGGCAGGG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTTGTGCCCT TGTTTTGGA TCTCAGTCTT CCTCCCCTA CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGGC TTCCTGGAGGC
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051	TTTTTCCTTA ACGTGATGTA GGTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGGGAT GGAAAGCCAC	AGACCTTGTA TCTGGTAATA ATCTGGCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTT TATTTCACAG CATCCTTGGC AAAACGTTGGC	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGCCAGGC AGACCGCAGG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTTTGGGA TCTCAGTCTT CCTCCCCTAA CCTCCCCCAA TGTGGAGAAT TGCAGAGCC TTCTGGAGG CGCAGGAGTT
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101	TTTTTCCTTA ACGTGATGTA GGTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGCGAT AGGAAACCCAC CTGCACACGG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGA TCCCCCAGAGA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCACTCTT CCTCCCCTTA CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTGTTCCCCC
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101	TTTTTCCTTA ACGTGATGTA GGTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGCGAT AGGAAACCCAC CTGCACACGG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGA TCCCCCAGAGA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCACTCTT CCTCCCCTTA CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTGTTCCCCC
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18151	TTTTTCCTTA ACGTGATGTA GGTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAACCAC CTGCACACG ACACCATCAG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG TCTCAGCTGT	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCCCCCTTA CCTCCCCCTA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTGTTCCCCC GACTTTGCTC
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18151 18201	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGCCTTGT GGTGAGACAG GTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGGGAT AGGAAGGGAT GGAAACCCAC CTGCACACAC ACCATCAG ACCTGTCTCT	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCACTT TATTTCACAG CATCCTTGGC AAAACGTTGG CCCCGGCCGC TTCTGCTCAC CAGACTTGG	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG GGCCAGCAGG	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG TCTCAGCTGT AGCGCTTTGA	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTTGGGCCTT TGTTTGGGA TCTCAGTCTT CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTTCCCCC GACTTTCCCCC CACTTTCCCCCCCCCC
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18151 18201 18251	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGCGAT GGAAACCCAC CTGCACACGG ACACCATCAG ACCCTGTCTCT CTGATGGGTC	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG GGGTCGCCGC AATTGATTTA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG TCTCAGCTGT AGCGCTTTGA CATTAGTTCA	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCACTCTT CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTGTTCCCCC GACTTTCCTC GACTTTCCTC GACTTTCCTC GACTTTCCTC GACTTTCCTC GCATTTTCCT
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18151 18201 18251	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGCGAT GGAAACCCAC CTGCACACGG ACACCATCAG ACCCTGTCTCT CTGATGGGTC	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG GGGTCGCCGC AATTGATTTA	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG TCTCAGCTGT AGCGCTTTGA CATTAGTTCA	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCACTCTT CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTGTTCCCCC GACTTTCCTC GACTTTCCTC GACTTTCCTC GACTTTCCTC GACTTTCCTC GCATTTTCCT
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18201 18201 18251 18301	TTTTTCCTTA ACGTGATGTA GGTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGG GGGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAGGGAT AGGAAGGGAT AGGAAACCCAC CTGCACACGG ACACCATCAG ACCCTCTCT CTGATGGGTC TGTCGCAGGG	AGACCTTGTA TCTGGTAATA ATCTGGCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG GGGTCGCCGC AATTGATTTT GGCCTTCCAC	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCCCATCCCA CCCCAGGGA AGACCGCAGC TGCCCAGGAG TCTCAGCTGT AGCGCTTTGA CATTAGTTCA GTTGTTTGC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCAGTCTT CCTCCCCCAA TGTGGAGAAT TGCCAGAGCC TTCTGGAGG TCCTCGGAGG TGTGTTCCCGC GACTTTGCTC CCTCAGCTCT CCTCAGCTCT CCTCAGCTCT CCTCAGCTCT CCTCAGCTCT CCAGAGCCAGAGCC CCTCAGCTCT CCAGAGCCC GCAGAGCCAGA
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18151 18201 18251 18301 18301	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGCCTGT GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAACCAC CTGCACACG ACACCATCAG ACCCATCAG ACCTGTCTCT CTGATGGGTC TGTTGGAGGAG ACCCAGGAGGTC TGTCGCAGGG ACCCAGGAGGT AGCCAGAGGT	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTTT	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG GGGTCGCCGC AATTGATTTT GGCCTTCCAC CTCTGTGTTT	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG TCTCAGCTGT AGCGCTTTGA CATTAGTTCA CTTTGCTCGCC CTTCGTCGCC	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTGGCCCT TGTGTTGGGA TCTCACTCTT CCTCCCCTTA CCTCCCCCTA TGTGGAGAAT TGCCAGAGCC TTCTGGAGG CGCAGGAGTT TGTTCCCCC GACTTTTCCT CCTCAGCTCT GCATTTTCC CCTCAGCTCT GCATTTTCC GCAGAGCAGA
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18201 18251 18301 18351 18301 18351	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTTG GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAACCCAC CTGCACACG ACACCATCAG ACACCATCAC ACCTGTCTCT CTGATGGTC TGTCGCAGGG ACACCATCAG ACCTGTCTCT TGTCGCAGGG AGCCAGAGT TTATTTCCTG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTT TATTTCACAG CATCCTTGGC AAAACGTTGG CCCGGCCGC TTCTGCTCCA CCAGACTTGG CAGGAAAAGT ATGGGAGTGA CCTTGCTCGT AACGCAGGTGA	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG GGGTCGCCGC AATTGATTTT GGCCTTCCAC CTCTGTGTT TGTGGTCAGG	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG TCTCAGCTGT AGCGCTTTGA CATTAGTTCA GTTGTTTGC CTTCGTCGGA CAGGAGATTG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTTGGGCCTT TGTTTGGGA TCTCAGTCTT CCTCCCCAA TGTGGAAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTTCCCGC GACTTTGCTC GCATTTTCC GCAGAGCAGA
17501 17551 17601 17651 17701 17751 17801 17851 17901 17951 18001 18051 18101 18201 18251 18301 18351 18301 18351	TTTTTCCTTA ACGTGATGTA GGTTTATGTA CTGTGGGTAC GGGCTTGCCT CTCTGCTGGA AGATGGTGGG GGGGGCCTTG GGTGAGACAG GTGAGATAAG GCTCTGGGTG AGGAAACCCAC CTGCACACG ACACCATCAG ACACCATCAC ACCTGTCTCT CTGATGGTC TGTCGCAGGG ACACCATCAG ACCTGTCTCT TGTCGCAGGG AGCCAGAGT TTATTTCCTG	AGACCTTGTA TCTGGTAATA ATCTGGCCAG CAGAGGCTTC AAATCCTCCT ATCCCTGTCA GAGGGAACTG GCCCCTTCAC GCTAAAGCGG CCTTTCCTT TATTTCACAG CATCCTTGGC AAAACGTTGG CCCGGCCGC TTCTGCTCCA CCAGACTTGG CAGGAAAAGT ATGGGAGTGA CCTTGCTCGT AACGCAGGTGA	GTCTGCCTTG AGAGCTGAAG GTTTGGGGCA ACATTTGTTT CCTCAGAGAG CACTGCGGAG TTCCACAGTC AGTTGTTGAT GGTACAGGCT GGAGAGCAAA TGGTGACTGT TTCATTAAGA GGGCCTCATA TCCCCAGAGC GGCCAGCAGG GGGTCGCCGC AATTGATTTT GGCCTTCCAC CTCTGTGTTT	TTGTCTCTTC TAATGTTTGT TAGATGGCC GGGTTTAAAG TCATTTCCCG AGTCTGCGTC GCCCTGTGGG TGTGACCAAA CTGCTTTTCC GAAAAACAGT TTCCATTTGC CCCCATCCA CCTGGCAGGG AGACCGCAGC TGCCCAGGAG TCTCAGCTGT AGCGCTTTGA CATTAGTTCA GTTGTTTGC CTTCGTCGGA CAGGAGATTG	ACACTCTATT TGAAAGCTGG TTTAGTGTGA TCTGCTGTAG GGTTGCCCTT TTGTTGGGCCTT TGTTTGGGA TCTCAGTCTT CCTCCCCAA TGTGGAAGAAT TGCCAGAGCC TTCCTGGAGG CGCAGGAGTT GTTCCCGC GACTTTGCTC GCATTTTCC GCAGAGCAGA

18501	GCAGGGAAGT	CTTGGACCTT	GACGTTGTCC	GATGTGGCTG	TTTCCTCCTT
18551	<b>GGCTGCTCTG</b>	<b>CTTTGTCTAA</b>	<b>GGATCCATCA</b>	CCTCAGCTGA	GGCCACAGGG
18601	ATTTACTCCC	ACACTTTCTT	<b>CTAAGTCTTG</b>	<b>TATAGTTTCA</b>	GCTCTTGCGT
18651	TTAGCTGTGT	GATTCATTTT	<b>GGGTTAATTT</b>	TTATGAACAA	TGTCAGGTGA
18701			<b>ATCGGTGGAT</b>		
18751			TTCCCCATTG		
			TTTATCCCAT		
			GATAACTGTA		
			CAGTTTTGTT		
18951			TCCACTGAAT		
	CATCTGAGCT		TTTGTGGCGG		
19051			TCGCTGTGGG		
			GGTGCCACGG		
					CGCCCTTCTC
			AGCTTGGCTT		
			ACTTCAGGGG		
19301			AGGGAGCTGG		
			CCCTCTGTGG		
19401			CCAAGGAGGA		
			AGGCACAGAC		
			GGAAGGGAGT		
1322T	GICACACAIC	TAGGTGACAC	AGCCCGGCTT	GGGCGCTGCT	CAGAGCCACC
			CAGCTCCTCA		
			GACGTTGCAG		
			ACGACGGCCG		
			ACCTTGTGTC		
			ATTCCTGAGT		
			CGAGTTTGCA		
19901	GGTTAGACCA	GAGAGTGCTG	AGACACAGCA	GATCACCCAG	CCTGTCCTCT
19951			TCCCCTGCCA		
20001	GAGGCCACAG	TGACAGGGCA	AAGCCTGGAG	GGAGAGAGCC	ACATGGAGAG
20051	GAGAGGGCTG	CCCGCAGAGA	GCGTGGGAGT	CTGCCGGCTT	CTTCTCGAGT
20101	CCTTGGCAAG	GTGCTGGCCG	CTCACACCGT	<b>GTACGTGTGG</b>	GGAACGCCCA
20151	GGACCAGGGT	GACACCACCA	GGAGGAGCGG	GCGGGACAGT	CCCCACTCAG
20201	<b>GGCTAGGAAG</b>	AGAGAGTCCA	CATTCCCGCT	GCCAGGGTGA	AACCCTCACA.
			ACACGGAGGG		
			CAAGAAATGT		
			GGTGAGACCG		
			CGTCAGCAAA		
			CACACTCTGT		
			AATCAGCATT		
20551			AATCTCAGCA		
			GTTCAAGACT		
20651	ACCCCGTCTC	TACAAAAATT	AGCTGGGTAT	GGTGGTGGGC	ACCTGTAATC
			GGCAGCAGAA		
20751			TCACGCCACT		
			TCCATGGATA		
20851			TGTGACAGGG		
20901			TGTTGTCCGT		
20951			TGCTTCCGTC		
21001			ACACTGGGTT		
21051			TGGTGTGTAC		
			TCCCTCCCAG		
			GTTCTGTGGT		
			GGGGGCCCTT		
			TGTGACTTGG		
21301	CCTCACCCCT	TCCTACTCAC	CAACGTCACC	ATCCAACTTC	ACCCTCACCA
21351	TAATGATGCT	TTCCCCACAC	CATGCCAGCG	CTCAGCGGCC	ACCACCCCC
21/01	CCACCCCACC	CACCCCCTCC	CCCGACCCCT	CCCTCCTCCC	AACTCCTCCT
21401	CCTCCCTCAA	CCAACTACTC	CTCCCTCCCC	ATCACACACC	ACTAACCCTC
21501	CCTCCTCCCA	CCCCCACCCT	CTGCCTGCCC	ATCACACACC	AGTAAGGGTG
215E1	TCTAACACAC	CCCTCCTTCC	CCGTCCACAA	CCCCACCCC	CCACAACCAC
21E01	CCCTCCCAC	CCTCTCTCTC	AGGATTCTCT	ACCCCCTCCC	LCAGAAGCAG
21661	ATCACACCCC	444666666	TGCTGTGATG	CTTTCCACCA	AGAACCCGGI
21701	ATGAGACGGG	AAAGGCCCGG	CAAGGGAGTG	GITTCCAGCA	AAGTCCCGCA
71/UI	GAGAACAGCT	TCTGCCTGGT	CCTGCAGGCC	CCACGGAGCA	AGTCCAAGCC
Z1/21	ATCCACCCAG	AGGCAAGGGA	GCTGGGCCTT	GGCATCCTCG	GGCTTGGGTG
7190T	AGTCACCCGC	AGAGATGCGA	GCTCCCGGG	CAGTCTGGCT	GCTGGAGGGC
<b>51821</b>	CGGGGCACTT	CAAATAGCCC	AGAGGCCGTC	ATCCAAAGCC	ACAGGTGGAG
<b>51301</b>	GCCCGATGGG	GATGCCCAGA	CACTCACTTG	AGGGGACATG	GGCGGAACCT
<b>51921</b>	GGACAGCGTC	CCCCACGCTC	ACGTGTGCCT	TTCCATCCAC	AGGAGAATGA
22001	CTATCTTCAA	GACTGCCTCG	ATGCCATCCA	GCAAGACTTC	GTGATTTTTA
22051	ACAGAGAAAA	GTGAGTGTGT	TGGGGGTGGG	TGGGCGTGGT	GGCAGAGAGG
22101	AGGAAAATGG	GGCTAAGGTT	AAGGTTTTCT	TGGCCACGTG	AGCGGGCACC
22151	TGTGGGCCTG	GGGTGCGTGG	CCCTGCTCTC	TTTGGGGACT	CTGAGCAGCA

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22201 GCTATGGAGG GGAGCGGCGG GAGGCCCCTG CCAGGCTCTG GCATGTTTGT
22251 GCTCCACGCG GGGCCCGTGG CTGGAATCTT CTGGGGAGAG ACACATCATT
22301 TGCCCAGATG AGGGGTGGTG ACTTCCTAGG AGGCCCCATC AGAGCCACGT
22351 CAACTCCCCC ACCCAGGCAC GCCCTCAGTC TCTCAGCAGA CCTTTCCTGA
 22401 ATGTCAGGCC CCAGGGGACA GAAAGGGCAC AGATGACTGG CAGCAGGCAA
 22451 GGCAGGCCAG AAATAGCAGC AGCTGCCACG GTGGGGCCCA AGGGAGGATG
 22501 GATGCTCCCT CTGCCCGCAC GGGGCAAGGA GGGCCTCCTG GAGGAGGTGG
 22551 GTCTGAGCTC TTATGGACAG GACGTGCAGG GCAGCACGTG CAGACGGCTG
 22601 AGGGCACTGA CTGGCACCCT GGGGATCAGA CGACCGGGTG AAGAATGAGG
 22651 CTTAGCCGAG CCTCATTCCC AAGTCACTGA CCTATGGCAC CTGCACAGTC
 22701 AGGCCTTTCG GCTTCTGGCT GGAAACATGC CGAGCCTCGC CAGCATGCTC
22751 ACGTGCCCCC ACCCGTCCCC AGGCTCCCTG CCAGTGTGTC GGGAGCATGG
22751 ACGTGCCCC ACCCGTCCC AGGCTCCCTG CCAGTGTGTC GGGAGCATGG
22801 CCTCTCCAGC AGACACCAGC CCTGTGGCCC ACGTTTGGGC ATCCACGCCA
22851 TGGCCTATCC CATGAGCCCG TGGGCAGGTC ATGGGACCGT GAGGCCAGGG
22901 AGGTGGGGC ATAACGCCCT CCATGTGTTC CTGCCACCCC AGGCTGAAGA
22951 GGAGCCAGGA CCTCCCGAGG GAGCCTCTCC CCGCCCCTGA GTCCAGGGAT
23001 GCTGCGGAGC CTGTGGAGGA CGAGGCGGAA CGCTCCGCC TGCCCATGTG
23051 CGGCCCCATT TGCCCCTCGG CCGGGAGCCG CTAGGCCGGG ACGCCCGTGG
23101 TCCTCACCCC TTGAGGTGCT TTGGAGACTC GGCTGCCAGA GGGAGGGCCA
23151 TGGGCCGAGG CCTGGCATTC ACGTTCCAC CCAGCCTGGC TGGCGGTGCC
23201 CACAGTGCCC CGGACACATT TCACACCTCA GGCTCGTGGT GGTGCAGGGG
23251 ACAAGAGGCT GTGGGTGCAG GGGAACACTT TCCCGTGGG
23301 CCCCCGAGAC CCCCCTAGAT GGAGGAAGCG CTGCTGGGGC CCCTCTTACC
23301 CCCCGAGAC CCGCCTAGAT GGAGGAAGCG CTGCTGGGCG CCCTCTTACC 23351 GCTCACGGGG AGCTGGGGCC ATGGATGGGA CAGGAGTCTT TGTCCCTGCT
23401 CAGCCCGGAG GCTGTGCACG GCCCTCGTCA CAAGGTGACC CTTGCAGCAC
23451 AGGCCGCGGG TGCCCCAGGC TCGGCTCAGT TCTTGGAGGT CAAGGGCATG
23501 GGTTGGGGTA GTGGGTGGGG AGGTGAATGT TTTCTAGAGA TTCAAACTGC 23551 TCCAGCAATT TCTGTATAGT TTTCACCTCT GAGAATTACA ATGTGAGAAC 23601 CGCTCGATGT TGCATGTTCT GCGTACGTCC TGTGTCTGCC TGGCCGTCAG
 23651 GCCGGTGCCT GCCGTTTCTG GTTGGCCTGG ACTTGGGGCA GCCAGTGGGG
 23701 TGGGCAGCTC CTCAGGGCAG AGCTCCCGGA CCATGGCTTT GGGGTGGGTG
 23751 CCTGTCTCCG TGGCCCTGGA GCCGTAAGGC TGTGGAAGGC AGAGACGGTC
23801 CTGGAGGCAG AGGAGCCCAG GACAGCACCG TGCACCGTGG AGCCGCCGCA
23851 GTGCCGGGCA GTGCTTGGCC CTCCATAAAG GGACGTATCC CTCTCACTGT
 23901 GGCTGGGTGG TTCTGTGGTT GGAACTGTAA CTAACTGGGT AAACGGCCTG
 23951 TGTGCTTCTC TCTGGTCTCG CTGGAGGAGG ACGGGCTCAG CCCGTCAGCC
 24001 CAGCGCTCCA GACAGGCCTG TGCTGGTTTC CTCTGAGGAA ATGGGTGTGG
24051 CGGGTCTGTG CCCCTTCCCA GGACAGCGGC CATAGTGGAC ATGTGCCTAG
24101 ACCTGTGTCC ATGAGCCCCA CTGCACCCCT GGCAAACAGG GCCCTCCCGT
 24151 CCTTGGCTGG GCTGCGAGAT GGAGATGACA ACGGCCAAAG AACATTTGGG
 24201 GAAGAACCGG CCATGCCACG AGCAGAGTCA GAAGTCCGAG GGGATAGAAT
 24251 GCAGCTTCCC GTCCCCCACC CACCCCTGTC CTCTGAATCA TGGCAGAAAC
 24301 TAGCCTTCCA GCCCTCAGCA GCTCACATGG GGGACACGGC ACCCAAATCA
 24351 CCACCAGGAA GGGTGGCCCG GTCTCTGCGA GGGCCCAGAG GCGCCGTGTA
 24401 CTCGGTGGAA GTCTGGCGAT GTCAGAGACA GGCTCGGGGC AAGGACAGGT
 24451 GTGGGGGTTT GAATAAGTGC ATTTGGGGAA CATGGCAGGG TGGTGCACCT
 24501 TGTCCTTCTT CGAGACACTG GTGAGGTGTG GGTGCTGTCT GGTTCCCTTG
 24551 ATCGCCCCC ACACTGGGGC AGAGTGGGAG ATGCTGGTGT GGGGGACATC
 24601 AGCTCCCACA TCTGGGCCAG AGGGAGCCCC GGGAAGGAAA TGCTGAGGGC
 24651 CCAGGGCCTT CGCCTGGGAT CTGCACAGCT TTATAAGCAG CCCAGGGTGA
24701 GAGATGGGCC TGTCTGTGGT TCCCAGAGAC CACGGCAGGA AATTCTCTGT
                                                                   TTATAAGCAG CCCAGGGTGA
 24751 CACCATCGGT GCATGGGCAG GGGCCAGAGA ACCGGTGGCA CAAGGTGTCC
 24801 CTGGCTCTCT GCTCAACAAA CAGCGAGTGC CCAGTGACTG CGACCAGGCC
24801 CIGGCTCTCT GCTCAACAAA CAGCGAGTGC CCAGTGACTG CGACCAGGCC 24851 CCCGCTCTTGG GATGAGGACA ACCGTCCACG CACCCTTTAT 24901 GAGACACAGC ACGGCCAGC ACCGCAGTCA CACACCGGGG GCTCGGGTCA 24951 GCCTCATAGC TGCCCGGCCT TGAGTGCTGG GCCTGCGTCT GTGAGCAGCG 25001 CCCACCTGGG TGGCGGTGGT GTGTGCTTCA CTTCCACACA CTCCCGTGCA 25051 TGCTCCCCGG CCTTCTGGGG TGGCTCGGGC TGTCCGGTGA GAATGTAGGC 25101 GGGGGGGGGG GGGGCCTCT GTCCCGCCCT GGATGTTGCCT TGCCCTCTGC
 25151 CCCGCCCTGG ATGTTGGCTG CCCTGCCGGC CATCTTCCCT GTGAGAGGGT
25101 GCGCCTCGC CTGCCATTGA GGGGAGAAGA GCTGCGGCTG CAGGAGTCGT
25201 GCGCTCCTCC CTGCCATTGA GGGGAGAAGA GCTGCGGCTG CAGGAGTCGT
25201 GGGACAGGC CACACCCAGC CAGGCCCGC CTGTGCAGAG ACGGCGTGGG
25301 GGAGGAGGAGA CGGGGCCTTC CTCCCATGCA CAGGCGGCTT CAAACCCAGA
 25351 CGTCTTTAAT GGGCCTGATT CACATCAGAG GCAGGATGAC TGCCTGTCCA
25401 GGCGGTGGGT GGCATGCACA GGTTCCTGGC TACAGTGTCC TCAGTGTACA
 25451 AAGCTGCTAC TAAGAAGCCT ACGGAAATAC ACAATCTGTA ATAAGAGGAC
25501 AGTGTCTTCC TAAAGGATCG CAAAACTTCC CTGGATGAGG GCTACATGGA
 25551 AGCTTAGGTG TGGGCCTTGG GGTGCGTAAA AGGGACCCTC CACGGGCGGG
 25601 GCT
  (SEQ ID NO: 3)
```

FEATURES: Start: 3000 Exon: 3000-3118

Intron: 3119-4126 4127-4300 Exon: 4301-5310 Intron: Exon: 5311-5348 5349-5478 5479-5568 Intron: Exon: Intron: 5569-5758 5759-5862 Exon: 5863-6571 6572-6688 Intron: Exon: 6689-8108 8109-8234 Intron: Exon: 8109-8234 8235-8322 8233-8454 8455-21992 21993-22060 22061-22942 22943-23081 Intron: Exon: Intron: Exon: Intron: Exon: 23082 Stop:

## SNPs:

DNA Position	Major	Minor	Domain	Protein Position	Major	Minor
1931	G	Α	Beyond ORF(5')			
4232	G	Α	Exon	75	Т	Т
4309	G	Т	Intron			
4622	G	Α	Intron			
4708	Т	A C	Intron			
5787	C	Т	Exon	150	N	N
5884	C	Т	Intron			
8481	C	Т	Intron			
8754	G	Α	Intron			
8847	G	Α	Intron			
11114	G	Α	Intron			
19741	Ā	G	Intron			
20908	C	Т	Intron			
22728	Т	C	Intron			
23406	C	T	Beyond ORF(3')			
24078	G	À	Beyond ORF(3')			
24777	Ğ	A	Beyond ORF(3')			

## Context:

DNA Position

1931

AGTTCAGTGGTACAGTCGTGGCTCACTGCAGCCTCAACCTCTCAGGCTCAAGCAATCCTCCCTTCTCAGTCTCCTGAGTAGCTGGGACTACGGGTGTGTGCCACCACGCTTTCCGGGCAT GCAGCCAGGAGCCCAGGGCCATCTGTGGCCCACCTTGAGATCCAGAATCATCCATTTCCTCCAGGCCCCCTGCTGGGCTCCAACTCCTTGAGGACCAGAGAGCAGAGGTTGTGGAAGGCC TTGGAAACGGGTCTGGATTACCTGTCCTGGGAAGGTCTCTCCCAACCTGAGTGTCAGACA [G,A]

GGGTTAGCTCTGCTGCTCACAATTTTGTGCCTTAATTCCTGGCTTCCCTTTGGGGATCTT  ${\tt CATCCTCAATTCTGATTGACATCCTTGGCCACAAGGGACCCCCCTGCTCATTGATGCTTC}$ 

TCACCCGTCACCTCACTCCTCACTGCTAAGCAATTAGCCGTGTGTTTTGCGGCATC AGTGTTGACACCGATGATCCATGCTCAGAGGGTACAGGCCTGAAGAGCTATGTGGGGACT GGCGCCCGGAGGGGGTCCCGCTGTGGTGGCAGCGGTGGCCCCCAAGCCCCACGCTCACT

4232 CCTCAGGATCTGGGCTCAGAGCTGCTCTGGGCTGGGGTGCAATCAGTGCCTTGGGCAGGC CCCTCCTCGGGAATGCCTGGTGGCTGATGCTGGGGTGGGGCTGTGGTCCTTAGGGGGA GTGTGTCAGCTGTGGGAGCAGCCATGACTGGCTCCCCAGCTGTGCGCACAACAGGCCTTC CATCGGTGCCCACAGGTACTCCTTCCAGGACGAGGAGGACATGTTCATGGTCGTGGACCT **<u>GCTACTGGGCGGGGACCTGCGCTACCACCTGCAGCAGAACGTGCAGTTCTCCGAGGACAC</u></del>** [G,A]

ĞTĞAĞGCTGTACATCTGCGAGATGGCACTGGCTCTGGACTACCTGCGCGGCCAGCACATC ATCCACAGGTGTGTGCGTGGCAGACGGCGCAGGTACCTGCTGAGGTGGGCGGGGCTGAAG CAGCCTTAGGTCAGGCTGCCGGCACGGCGGCCGTACTCCCTCAGAGCGGGTCTAGCTCCT CTGCCCCACCCTTGCCTGAGTGCCTGCCCCCAGCTGTGGCACCTGTGCCGACCAGGTCAG CCCCATAGCTGTGCCTGGTGTCCATCTGGGGGGACCTCGTCCCAGCAGCCCCAGCTGA

## FIGURE 3H

4309 CCTGGTGGCTGATGCTGGGGTGGGGCTGTGGTCCTTAGGGGGAGTGTGTCAGCTGTGGGA GCAGCCATGACTGGCTCCCCAGCTGTGCGCACAACAGGCCTTCCATCGGTGCCCACAGGT ACTCCTTCCAGGACGAGGAGGACATGTTCATGGTCGTGGACCTGCTACTGGGCGGGGACC TGCGCTACCACCTGCAGCAGAACGTGCAGTTCTCCGAGGACACGGTGAGGCTGTACATCT GCGAGATGGCACTGGCTCTGGACTACCTGCGCGGCCAGCACATCATCCACAGGTGTGTGC [G,T] TGGCÄGACGGCGCAGGTACCTGCTGAGGTGGGCGGGGCTGAAGCAGCCTTAGGTCAGGCT GCCGGCACGGCGGCCGTACTCCCTCAGAGCGGGTCTAGCTCCTCTGCCCCACCCTTGCCT GAGTGCCTGCCCCAGCTGTGGCACCTGTGCCGACCAGGTCAGCCCCATAGCTGTGTGCC TGGTGTCCATCTGGGGGGACCTCGTCCCAGCAGCCCCAGCTGAGACTGGGCACAGTGGGC TGTTAGCCCTGGTGGACAGACCACCAGGCTGGGTCACAGCAGGTGGCCTTCACCTGGTCC 4622 CAGGTACCTGCTGAGGTGGGCGGGGCTGAAGCAGCCTTAGGTCAGGCTGCCGGCACGGCG GGGGGGACCTCGTCCCAGCAGCCCCAGCTGAGACTGGGCACAGTGGGCTGTTAGCCCTGG TGGACAGACCACCAGGCTGGGTCACAGCAGGTGGCCTTCACCTGGTCCATTTAACTGAAG [G,A] CTCCTGTTTGCCCATCCACCACATCCCAGGGAATCCAAACTAATTTTAACATTAGCTTAA AGCAGATGAAATTAGGAAGCAGAGCTGGTGTGATGGCTCTGAAAAATAAAATTTAAAAAAA GAAAATAGGAAGCAGATTATGAAGGAAGTGAAATTGGGAAGCAGAAATTAGGCTGAAATT CCGCAGCAATGGAACAAAATGAAAATATCTGTGAGGTATATTTTAAAGTCGAATGGACTG GTGTTTGCATTTCTGCTCTTGGGGACTCGGATGTCTGATTATGACCTAGGCACCAGTCAC 4708 CTCCTCTGCCCCACCCTTGCCTGAGTGCCTGCCCCCAGCTGTGGCACCTGTGCCGACCAG GTCAGCCCCATAGCTGTGTGCCTGGTGTCCATCTGGGGGGACCTCGTCCCAGCAGCCCCA GCTGAGACTGGGCACAGTGGGCTGTTAGCCCTGGTGGACAGACCACCAGGCTGGGTCACA GCAGGTGGCCTTCACCTGGTCCATTTAACTGAAGACTCCTGTTTGCCCATCCACCACATC CCAGGGAATCCAAACTAATTTTAACATTAGCTTAAAGCAGATGAAATTAGGAAGCAGAGC ĞĞTĞTĞATĞĞCTCTĞAAAATAAAATTTAAAAAAAĞAAAATAĞĞAAĞCAĞATTATĞAAĞĞA AGTGAAATTGGGAAGCAGAAATTAGGCTGAAATTCCGCAGCAATGGAACAAAATGAAAAT ATCTGTGAGGTATATTTTAAAGTCGAATGGACTGGTGTTTGCATTTCTGCTCTTGGGGAC TCGGATGTCTGATTATGACCTAGGCACCAGTCACTGAGCACTGGCTGTGTACCTGGAAAA GTTGGGACAAAGCAAGAGCCGAGGTGGCTTGGTCTCCTAGAGGCCGAGTCTTGGAGGGGG 5787 GCAGGCACCAAGCCGTACATGGGTGAGCCCGAGCTGGGGTTCCAGATGGGAGCTGGCTTC CTCCAGGTGGGAAGGACAAGACCTCGGTGGCTTCTCTGTCCCACCCTGGAGGCAGCCTGG TCTCGGGATGTGGCCTCAAGGTGCCGGCCCTGTGCCCACGGGTCCGGGCTGTGACCCCGT GGCAGCTGTTTTTCCTTCTTTCTGTCGGAAAGCTCCGGAGATCTTCCACTCTTTTGTCAA [C,T] CTGCTGCGAGGCTACTCCTTCGAGGTGGACTGGTGGTCGGTGGGGGTGATGGCCTATGAG
CTGCTGCGAGGATGGGTATGGACCCCCTGCAGCCCCCGGGCTTGGCTGCCAGGCCCCTGC TCTCTGCCCCACCAGTGCTGGGGAGGGGGTGGCTGCCCCAGTGCCCAGGGGATGCTCCACCTGTGTCTGAGGAGTCACGCTTTTATCGAAGTGTGTAGTTGGTGATGGAATG CCTGAGCAGGAGGAAGGACAGACTCACTGTGGTTTCCCGGGGCCGCTGCTGGTGCCT 5884 GGTTCCAGATGGGAGCTGGCTTCCTCCAGGTGGGAAGGACAAGACCTCGGTGGCTTCTCT GTCCCACCCTGGAGGCAGCCTGGTCTCGGGATGTGGCCTCAAGGTGCCGGCCCTGTGCCC GAGATCTTCCACTCTTTTGTCAACGGCGGGACCGGCTACTCCTTCGAGGTGGACTGGTGG TCGGTGGGGGTGATGGCCTATGAGCTGCTGCGAGGATGGGTATGGACCCCCTGCAGCCCC GGGCTTGGCTGCCAGGCCCCTGCTCTCTGCCCCCACCAGTGCTGGGGAGGGGGTGGCTGC CCCAGTGCCCAGGTGCGCAGGGATGTCTCCACTGTGTCTGAGGAGTCACGCTTTTATCGA TCCCGGGGCCGCTGCTGGTGCCTGCAGGCCAGCCTCTGTGGGGGTGGACAAGGCTGAGAA CTGGCCAGCAGGGGTGCTGCCTCGGAACTTTCCACAAAAAGTTTCTTTTGGGGCCCTGTG 8481 GTGCTGTGGGACCACCTGAGCGAGAAGAGGGTGGAGCCGGGCTTCGTGCCCAACGTAAGC CTGTGGGCGGCTCAGGTGGGGGCCCTGGGGATGGATGTGGCGTCCTCCACGGGCCGGG CTCAGCACCCATCCCTCTGTAGAAAGGCCGTCTGCACTGCGACCCCACCTTTGAGCTGGA GGAGATGATCCTGGAGTCCAGGCCCCTGCACAAGAAGAAGAAGCGCCTGGCCAAGAACAA GTCCCGGGACAACAGCAGGGACAGCTCCCAGTCCGTGAGTGCCAGGGCAGGCTCAGGGCG GGCGGCGGGCTGGGCTTGGGGCTCCTCTCTACCACCGAGCAAGGTGTGTGGGGACCCCTG ACAGTGCACACGTCTCGGAAGTCCAGCAGACCGTTTCCTGAAGTCCTGAGAAGGCCAGAG ACCTCCCTTCTGCCTTTCCCAGCCCCCACCTCGCTCCTTATGAAGCAGGTGGGCAGGGAC AACCAGGGCTGGGGTTATGAGTGCACGGGGATGGCCATGTGAAGCCTTCGTGCTTGCCCA GGTGTGCTGGTGTTGTGTGTGCGGGGACGGCTATGTGAAGCCCTCACACTCGCCCA

8754

CGTGAGTGCCAGGGCAGGCTCAGGGCGCGGCGGGCTGGGCTTGGGGCTCCTCTCTAC
CACCGAGCAAGGTGTGTGGGGACCCCTGACAGTGCACACGTCTCGGAAGTCCAGCAGACC

- 19741 GTCAGAGGAAGAGCAGGCCAGATCCAGGCCAGGCACAGACCCTGCCATGGGGTACTGCTG
  GCGGCGCTACACACACCTTGGGAAGGGAGTCCCTGTGGAAAGGGTCGTGGTCACACATC
  TAGGTGACACAGCCCGGCTTGGGCGCTGCTCAGAGCCACCCCTTCCAGATGGTTCTGCAG
  CAGCTCCTCAGGCTTCTGGTGGCCTCTCTGCCTAGGAAAACATGGCTGTGGACGTTGCAG
  GATGACCAACAGCCCCTGCCACTGGGCTGCACACAGGGCCACGACGGCGCTCATGTTCT
  [A, G]
  CATCACTGGCGCCCACCCCAGCCCCTCCCACCTTGTGTCGCTGTGAATCGCAGGATCCCA
  GCGGCTCAGTCGGACCCTCATTCCTGAGTAGTCTGAGCCTTAGGTCACCGTCACCTTTCT
  AGGCCGGCCCGAGCTTTGCAGACTTGTCTGTCTATATCAGGGTTAGACCAGAGTGCTGA
  GACACAGCAGATCACCCAGCCTGTCCTTCTTCTTGATGACCAGAGCTCCCCTGCCAG
  GATCGTGACTCCTTTAGGGGAGGCCACAGTGACAGGCCAAAGCCTGGCAGGAGAGACCA
- 22728 CACAGATGACTGGCAGCAGGCAAGGCAGGCCAGAAATAGCAGCTGCCACGGTGGGGC
  CCAAGGGAGGATGGATGCTCCCTCTGCCCCCACGGGGCAAGGAGGGCCTCCTGGAGGAGG
  TGGGTCTGAGCTCTTATGGACAGGACGTGCAGGGCAGCAGCAGGACGGCTGAGGGCAC
  TGACTGGCACCCTGGGGATCAGACCGGGTGAAGAATGAGGCTTAGCCGAGCCTCATT
  CCCAAGTCACTGACCTATGGCACCTGCACAGTCAGGCCTTTCGGCTTCTGGCAAACA
  [T, C]
  GCCGAGCCTCGCCAGCATGCTCACGTGCCCCCACCCGTCCCCAGGCTCCCTGCCAGTGTG
  TCGGGAGCATGGCCTCTCCAGCAGACACCGAGCCTGTGGCCCACGTTTTGGGCATCCACGC
  CATGGCCTATCCCATGAGCCCGTGGGCAGGTCATGGGACCGTGAGGCAGGAGGTGGGG
  GCATAACGCCCTCATGTGTTCCTGCCACCCCAGGCTGAAGAGGAGCCAGGACCTCCCGA
  GGGAGCCTCCCCACCCCCCCCGGAGCCTGTGGAGCCAGGACCTCCCGA

TTACCGCTCACGGGGAGCTGGGGCCATGGATGGGACAGGAGTCTTTGTCCCTGCTCAGCC

[C,T]

24078

GGCTGTGGAAGGCAGAGACGGTCCTGGAGGCAGAGGAGCCCAGGACAGCACCGTGCACCG TGGAGCCGCCGCAGTGCCGGGCAGTGCTTGGCCCTCCATAAAGGGACGTATCCCTCTCAC TGTGGCTGGGTGGTTCTTGGTTGGAACTGTAACTAACTGGGTAAACGGCCTGTGTGCTT CTCTCTGGTCTCGGAGGAGGACGGCCCAGCCCCAGCGCTCCAGACAGGC CTGTGCTGGTTTCCTCTGAGGAAATGGGTGTGGCGGGTCTGTGCCCCTTCCCAGGACAGC [G,A]

24777

ÄĞÁAČCGGTGGCACAAGGTGTCCCTGGCTCTCTGCTCAACAACAGCGAGTGCCCAGTGA CTGCGACCAGGCCCCGCTCTTGGGATGAGGACAACCGTCTGGGAACGTCCACGCACCCTT TATGAGACAGCACGCCAGGCCCGCAGTCACAACACCGGGGCTCGGGTCAGCCTCAT AGCTGCCCGGCCTTGAGTGCTGGGCCTGCGTCTGTGAGCAGCGCCCACCTGGGTGGCGGT GGTGTGTGCTTCACTTCCACACACTCCCGTGCATGCTCCCCGGCCTTCTGGGGTGGCTCG

Chromosome mapping: Chromosome 10